

This helpful guide gives you

A unified approach to linear network and control system analysis

You can solve your engineering design problems more quickly and easily with the practical help of this comprehensive book. It provides instant access to important data for linear network and control system analyses. Physical concepts and mathematical techniques are fully discussed along with their applications to a wide range of engineering needs.

THE ANALYSIS OF LINEAR SYSTEMS

By Wayne H. Chen, Professor of Electrical Engineering, University of Florida

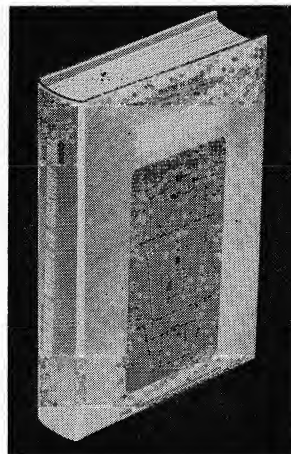
This valuable book presents you with the techniques for linear system analysis in easy-to-follow stages. It divides the subject into four categories: network descriptions and characteristics; system responses; problems of stability; and network and system relations emphasized as physical concepts. Since these divisions are mathe-

matically related, many topics belonging to the different groups may conveniently be studied together. In this way, mathematical techniques and models in the analysis of both linear networks and control systems are used interchangeably.

For maximum usefulness as a reference guide, the text is organized like a table so that you may readily see the relative importance and proper relations among topics. Other special features include:

- signal-flow diagrams for network and system analysis
- fundamental criterion developed for determining system stability
- avoidance of unnecessary mathematical symbolism
- attention given to those concepts, definitions, and techniques which often are not fully understood
- mathematics developed as needed

In addition, this unique volume makes clear the important distinctions between steady-state and transient responses . . . time- and frequency-domain concepts . . . Fourier and Laplace transforms . . . network and control systems . . . and many more.



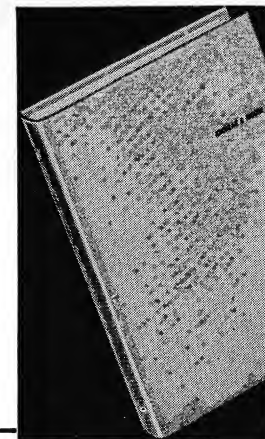
592 pages,
6 $\frac{3}{4}$ x 9 $\frac{1}{4}$
322 illustrations
\$16.00

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Professor of Physics, Western Michigan University

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Associate Professor of Mathematics,
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SECTION HEADINGS

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| 1. Arithmetic | 5. Intuitive Calculus |
| 2. Algebra | 6. Measurement |
| 3. Plane Geometry | 7. Graphical Analysis of Experimental Data |
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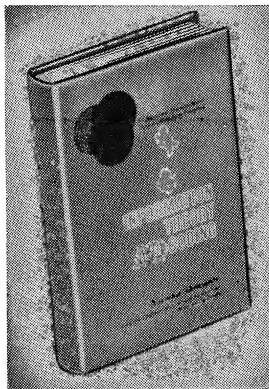
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- parallelograms
- parallelepipeds
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CONTENTS

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3. *Some Properties of Codes*
4. *Coding Information Sources*
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Associate Professor of Electrical Engineering, Stanford University

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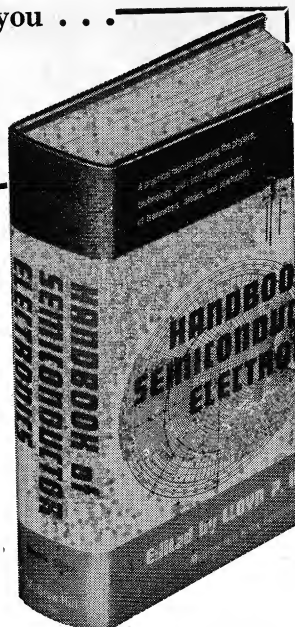
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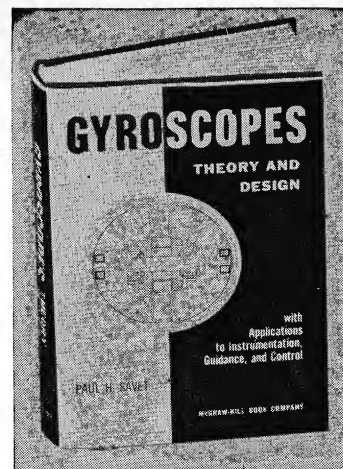
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| 1. Transistor Characteristics | 7. Methods of Preparing PN Junctions | 14. Transistor Oscillators |
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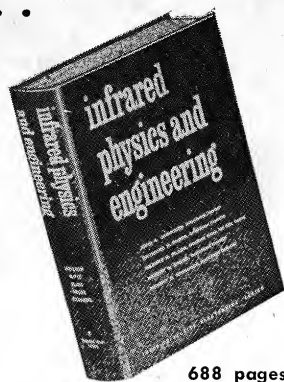
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